Technika

OPERATING INSTRUCTIONS

Colour Television with Remote Control

42-2030

High definition channels include*:

BBC HD | itv 1 hd | 4 hd | S4/C Clirlun

Standard definition channels include:

BBC one | BBC TWO | itv 1 | 4 | FIVE | up to 24 digital ra dio stations

BBC three | itv 2 | MORE | FILM! | Dave | red button inter cti ve services

*4HD not in Wales. Clirlun, S4C's High Definition Channel, in Wales only.

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Channels subject to change. The channel logos are trademarks and copyright of their respective owners.

CHECK YOUR HD COVERAGE online at freeview.co.uk or text your postcode followed by your house number or name to 80560 (e.g. NW9 6NY 1) Costs no more than a normal text.

digital ✓ Certification mark Approved product | Freeview HD | FULL HD 1080 | HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE | DVB T TERRESTRIAL
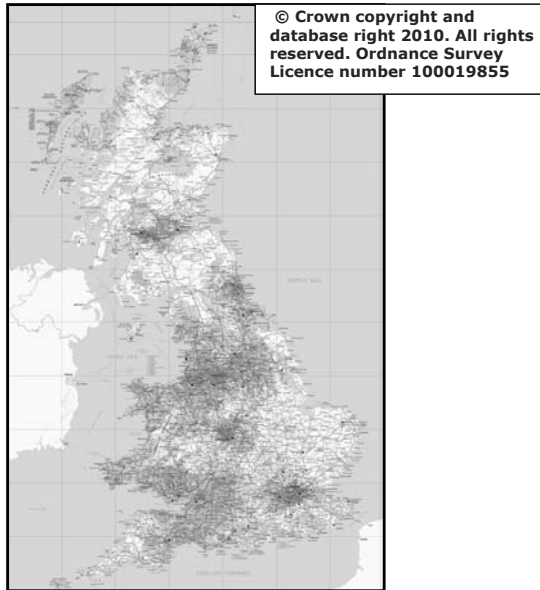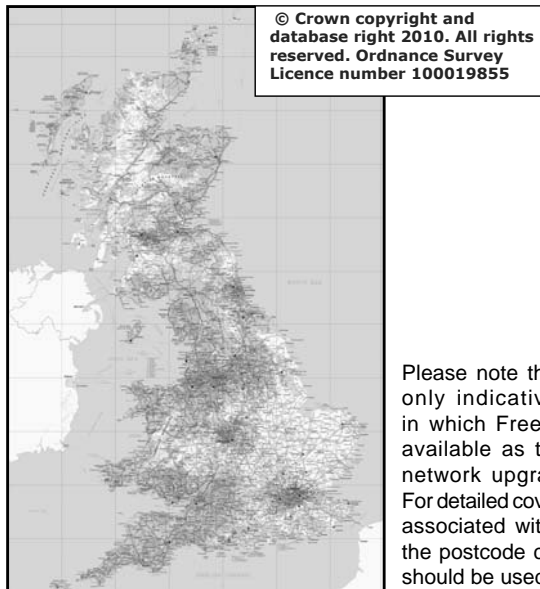
Freeview HD coverage roll-out

The following maps give an indication of the increasing percentage of UK households able to access Freeview HD as the transmission network upgrade progresses to 2012.
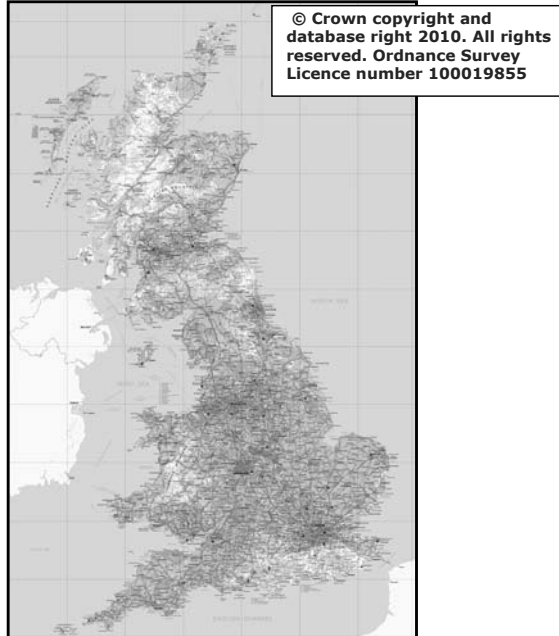
July 2010: 50% of UK households
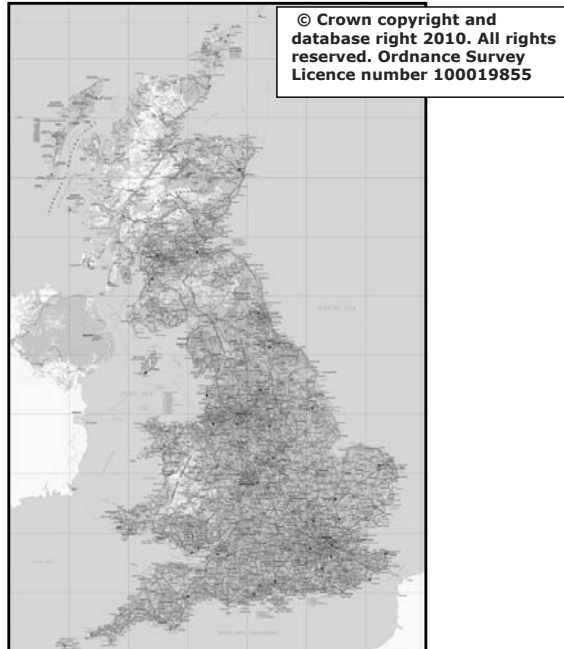
End of 2010: 60% of UK households

Please note that the maps are only indicative of the areas in which Freeview HD will be available as the transmission network upgrade progresses. For detailed coverage information associated with specific dates, the postcode checker database should be used.

End of 2011: 80% of UK households

End of DSO in 2012: 98.5% of UK households

Contents

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Features

- Remote controlled colour LCD TV.
- Fully integrated digital TV (DVB-T DVB-T2 - MPEG2 MPEG4).
- DTV input supports 1920x1080i
- HDMI connectors for digital video and audio. This connection is also designed to accept high definition signals.
- USB input.
- 200 programmes from VHF, UHF(analogue).
- 1000 programmes for digital mode (IDTV).
- Integrated tuner DVB-T HD, MPEG 2 / MPEG 4 compatible.
- OSD menu system.
- Two scart sockets for external devices (such as video, video games, audio set, etc.).
- Stereo sound system. (German+Nicam)
- Teletext, fastext, TOP text.
- Headphone connection.
- Automatic programming system.
- Forward or backward manual tuning.
- Automatic sound mute when no transmission.
- NTSC playback.
- AVL (Automatic Volume Limiting).
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to standby mode.
- PLL (Frequency Search).
- PC input.
- Plug&Play for Windows 98, ME, 2000, XP, Vista, Windows 7.
- Audio line out.
- Game Mode

Introduction

Thank you for choosing this product. This manual will guide you for the proper operation of your TV. Before operating the TV, please read this manual thoroughly.

Please do keep this manual in a safe place for future references.

Read the corresponding instructions of this handbook prior to the first usage of the device, even when the usage of electronic devices is familiar to you. Notice especially the chapter SAFETY PRECAUTIONS. Carefully keep the handbook as future reference. When selling the device or giving it away, absolutely give these direction for use.

- This device is intended to receive and display TV programs. The different connection options make an additional expansion of the reception and display sources possible (receiver, DVD player, DVD recorder, VCR, PC etc.). This device is only suitable for the operation in dry interiors. This appliance is intended solely for private domestic use and may not be used for industrial and commercial purposes. We exclude liability in principle, if the device is not used as intended, or unauthorized modifications have been made. To operate your LCD-TV in extreme ambient conditions may cause the damage of the device.

Package Contents

	Batteries: 2 X AAA
Remote Control	Instruction Book
	LCD TV
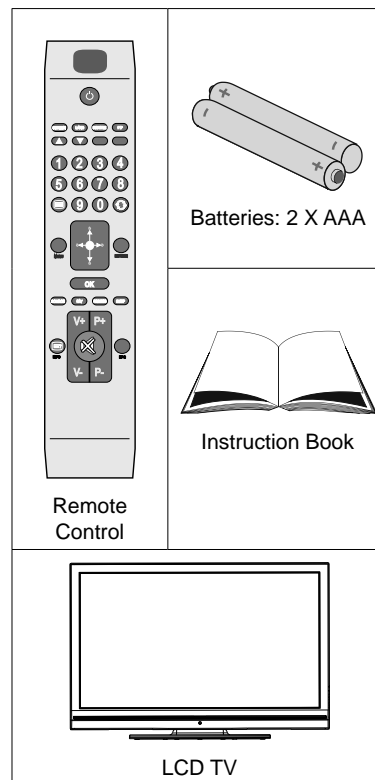
Note: You should check the accessories after purchasing. Make sure that each accessory is included.

Preparation

For ventilation, leave a free space of at least 10 cm all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set.

Use this device in moderate climates.
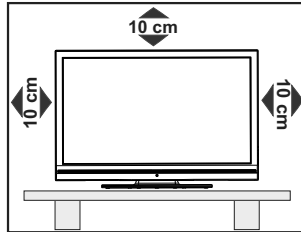
Safety Precautions

Please read the following recommended safety precautions carefully for your safety.

Power Source

The TV set should be operated only from a 220-240 V AC, 50 Hz outlet. Ensure that you select the correct voltage setting for your convenience.

Power Cord

Do not place the set, a piece of furniture, etc. on the power cord (mains lead) or pinch the cord. Handle the power cord by the plug. Do not unplug the appliance by pulling from the power cord and never touch the power cord with wet hands as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be placed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electric shock. When it is damaged and needs to be replaced, it should be done by qualified personnel.

Moisture and Water

Do not use this device in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this device to rain or water, as this may be dangerous and do not place objects filled with liquids, such as flower vases, on top. Avoid from dripping or splashing.

If any solid object or liquid falls into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.

Cleaning

Before cleaning, unplug the TV set from the wall outlet. Do not use liquid or aerosol cleaners. Use soft and dry cloth.

Ventilation

The slots and openings on the TV set are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

Heat and Flames

The set should not be placed near to open flames and sources of intense heat such as an electric heater. Ensure that no open flame sources, such as lighted candles, are placed on top of the TV. Batteries should not be exposed to excessive heat such as sunshine, fire or the like.

Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord from the wall outlet.

Replacement Parts

When replacement parts are required, make sure that the service technician has used replacement parts, which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock or other hazards.

Servicing

Please refer all servicing to qualified personnel. Do not remove the cover yourself as this may result in an electric shock.

Waste Disposal

Instructions for waste disposal:

• Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children.

• Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used battery in an environment friendly manner. Find out about the legal regulations which apply in your area. Don't try to recharge batteries. Danger of explosion. Replace batteries only with the same or equivalent type.

• Cold cathode fluorescent lamp in LCD PANEL contains a small amount of mercury; please follow the local laws or regulations for disposal.

Information for Users in European Union Countries

This symbol on the product or on its packaging means that your electrical and electronic device should be disposed at the end of its service life separately from your household wastes. There are separate collection systems for recycling in EU.

For more information, please contact the local authority or the dealer where you purchased the product.

Disconnecting the Device

The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable.

Headphone Volume

Excessive sound pressure from earphones and headphones can cause hearing loss.

Installation

To prevent injury, this device must be securely attached to the wall in accordance with the installation instructions when mounted to the wall (if the option is available).

LCD Screen

The LCD panel is a very high technology product with about a million thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green or red point. Please note that this does not affect the performance of your product.

Warning

Do not leave your TV in standby or operating mode when you leave your house.

• The Standby / On button doesn´t separate this device completely from mains. Moreover the device consumes power in the standby operation. In order to separate the device completely from mains, the mains plug has to be pulled from the mains socket. Because of that the device should be set up in a way, that an unobstructed access to mains socket is guaranteed, so that in case of emergency the mains plug can be pulled immediately. To exclude the danger of fire, the power cord should principally be separated from the mains socket prior to a longer period of non-usage, i.e. during vacations.

Electrical device not in the hands of children

Never let children use electrical device unsupervised. Children can´t always recognize properly the possible dangers. Batteries / accumulators can be life threatening when swallowed. Store batteries unreachable for small children. In case of swallowing a battery medical aid has to be sought immediately. Also keep the packaging foils away from children. There is danger of suffocation.
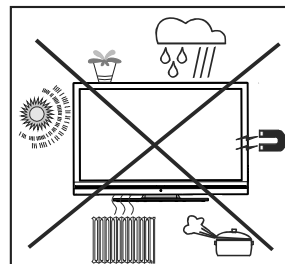
LICENSE NOTICE

Manufactured under license from Dolby Laboratories.

TRADEMARK ACKNOWLEDGMENT

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Inserting Batteries in the Remote Control

• Remove the battery cover located on the back of the remote control by gently pulling backwards from the indicated part.

• Insert two **AAA/R3** or equivalent type batteries inside. Please ensure the correct polarity is observed.
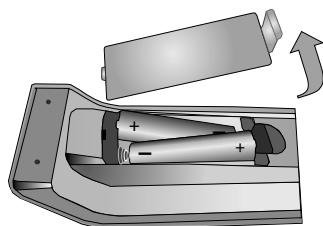
Note: Remove the battery from remote control when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries.

Remote range is approximately 7m/23ft.

Switching the TV On/Off

To Switch the TV On

• Connect the power cord to the 220-240V AC 50 Hz. Then the standby LED lights up.

• To switch on the TV from standby mode either:

• Press the "⏻" button, **P+** / **P-** or a numeric button on the remote control.

• Press the **-P/CH** or **P/CH+** button on the TV. The TV will then switch on.

Note: If you switch on your TV via PROGRAMME UP/DOWN buttons on the remote control or on the TV set, the programme that you were watching last will be reselected.

By either method the TV will switch on.

To Switch the TV Off

• Press the "⏻" button on the remote control or press the "⏻" switch on the TV, so the TV will switch to standby mode.

• **To power down the TV completely, unplug the power cord from the mains socket.**

Note: When the TV is switched to standby mode, standby LED can blink to indicate that features such as Standby Search or Over Air Download is active.

Environmental Information

• This television is designed to consume less energy to save environment.

You not only help to save the environment but also you can save money by reducing electricity bills thanks to the energy efficiency feauture of this TV. To reduce energy consumption, you should take the following steps:

• You can use Power Save Mode setting, located in the Feature menu. If you set Power Save Mode as On, the TV will switch to energy-saving mode and luminance level of TV set will be decreased to optimum level. Note that some picture settings will be unavailable to be changed when the TV is in Power Save Mode.

Power Save Mode	On

• When the TV is not in use, please switch off or disconnect the TV from the mains plug. This will also reduce energy consumption.

• Disconnect power when going away for longer time.

• Note that annually, using the TV set in Power Save Mode has more power efficiency than disconnecting the TV from the mains plug instead of keeping stand-by mode. Therefore disconnect the TV from the mains plug to save energy when you do not use. However it is highly recommended to activate Power Save Mode setting to reduce your annual power consumption.

• Please helps us to save environment by following these steps.

Repair Information

Please refer all servicing to qualified personnel. Only qualified personnel must repair the TV. Please contact your local dealer, where you have purchased this TV for further information.

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Overview of the Remote Control

1. Standby / On
2. Mono/Stereo - Dual I-II
3. Expand (in TXT mode)/ Image size
4. Green / Picture Menu / Subtitle on-off (in DTV mode)
5. Red /Sound Menu
6. Numeric buttons
7. Teletext / Mix / PAT (in TXT mode)
8. Cursor Left
9. Menu
10. AV / Source
11. Favourite Mode Selection (in DTV mode)
12. Volume Up
13. Info / Reveal (in TXT mode)
14. Mute
15. Volume Down
16. Programme Down / Page up (in DTV mode)
17. Electronic programme guide (in DTV mode)
18. Programme Up / Page down (in DTV mode)
19. Sleep Timer
20. Picture Mode Selecion
21. Okay (Store) / Select / Channel list (in DTV mode)/ Hold (in TXT mode)
22. Cursor Down
23. Exit (in DTV mode) / Return / Index page (in TXT mode)
24. Cursor Right / Subpage (in TXT mode)
25. Cursor Up
26. Previous programme
27. Yellow / Feature Menu
28. Blue / Install Menu
29. No function
30. Subtitle on-off (in DTV mode) / TXT subtitle

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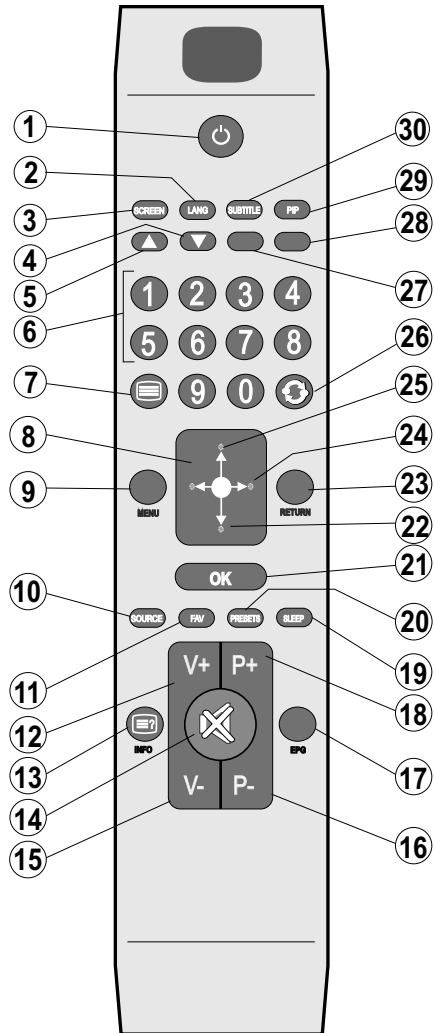
LCD TV and Operating Buttons

FRONT and REAR VIEW	SIDE VIEW	Control Buttons
Standby LED	① Φ ② TV/AV ③ P/CH ∧ ∨ ④ MENU ∧ ∨	1. Standby button 2. TV/AV button 3. Programme Up/Down buttons 4. Volume Up/Down buttons **Note:** *Press* **−** *and* **+** *buttons at the same time to view main menu.*
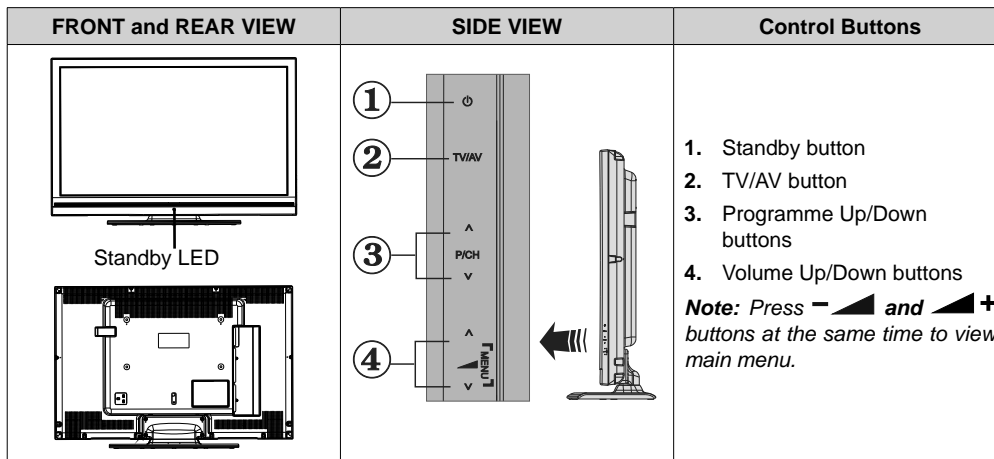
Viewing the Connections- Back Connectors
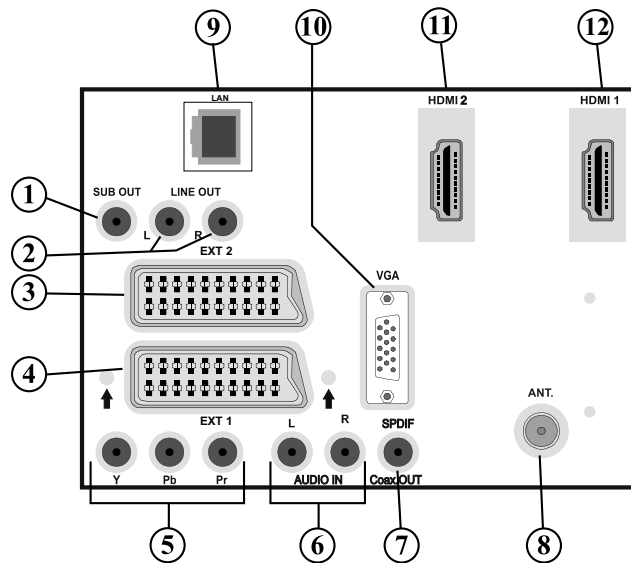
1. **Subwoofer Out** is for connecting an external, active subwoofer to the set to give a much deeper bass effect.
   Use an appropriate RCA cable to connect the set to a subwoofer unit.

2. **Audio Line Outs** output audio signals to an external device such as an optional sound system.
   To connect the external speakers to your TV, use **AUDIO LINE OUTS** of the TV with an audio cable.

3. **EXT 2** inputs or outputs for external devices.

4. **EXT 1** inputs or outputs for external devices.
   Connect the **SCART** cable between **EXT (SCART)** sockets on TV and **EXT (SCART)** socket on your external device (such as a decoder, a VCR or a DVD player).
   *Note: If an external device is connected via the **EXT (SCART)** sockets, the TV will automatically switch*

*to AV mode. If both sockets are employed at the same time, **EXT 1** will override **EXT 2** unless manually selected.*

Note: *You should connect the decoder to EXT-1, if you are planning to watch a scrambled channel. The decoder might not function properly if you do not connect the decoder to the EXT 1 socket.*

5. **Component Video Inputs (YPbPr)** are used for connecting component video.
   You can connect the component video and audio sockets with a device that has component output. Connect the component video cables between the **COMPONENT VIDEO INPUTS** on on the TV and the component video outputs of your device. While connecting, be sure that the letters on your TV, "**Y**", "**Pb**", "**Pr**" correspond with your device's connectors.

6. **PC/YPbPr Audio Inputs** are used for connecting audio signals of a PC or a device that connects to the TV via YPbPr.
   Connect the PC audio cable between the **AUDIO INPUTS** on the TV and audio output of your PC to enable PC audio.
   Connect the audio cable between **AUDIO INPUTS** on the TV and audio outputs of your device to enable component audio.

7. **S/PDIF Coaxial Out** outputs digital audio signals of the currently watched source.
   Use an **SPDIF coaxial cable** to transfer audio signals to a device that has S/PDIF input.

8. **RF Input** connects to an antenna or a cable system..
   Note that if you use a decoder or a media recorder, you should connect the aerial cable through the device to the television with an appropriate antenna cable, as shown in the illustration in the following pages.

9. Ethernet (LAN) Input is used for MHEG return channel (future service, currently under development by broadcaster).

10. **PC Input** is for connecting a personal computer to the TV set.
    Connect the PC cable between the **PC INPUT** on the TV and the PC output on your PC.

11. **HDMI 2: HDMI Input**

12. **HDMI 1: HDMI Input**
    HDMI Inputs are for connecting a device that has an **HDMI** socket. Your LCD Television is capable of displaying High Definition pictures from devices such as a High Definition Satellite Receiver or DVD Player. These devices must be connected via the HDMI sockets or Component Socket. No sound connection is needed for an HDMI to HDMI connection.

When you use the wall mount kit (optional) with the LCD TV, we would definitely recommend to plug all your cables into the back of the LCD before mounting to the wall.

Viewing the Connections - Side Connectors

1. CI Slot is used for inserting a CI card. A CI card allows you to view all the channels that you subscribe to. For more information, see "Common Interface" section.

2. **Important Notice:** Side USB Input 1 is for service use oniy. Note that this USB connector does not have any other functions such as playing audio or picture files.

3. Side USB input 2 is available in analogue TV mode. You can use Media Browser screen to browse a connected USB disk.

4. **HDMI-3**: HDMI Input.

5. Headphone jack is used for connecting an external headphone to the system. Connect to the **HEADPHONE** jack to listen to the TV from headphones (optional).

6. Video Input is used for connecting video signals of external devices. Connect the video cable between the **VIDEO IN** socket on the TV and the **VIDEO OUT** jack on your device.

7. Audio Inputs are used for connecting audio signals of external devices. Connect the audio cable between the **AUDIO INPUTS** on the TV and the **AUDIO OUTPUT** jacks on your device. Note: If you connect a device to the TV via the **VIDEO INPUT**, you should also connect your device with an audio cable to the **AUDIO INPUTS** of the TV to enable audio.

8. **S-Video** Input is used for connecting an **S-VIDEO** signal (e.g. from a camcorder or VCR). For using S-VIDEO input; connect the video cable between the S-VIDEO input on the TV and the S-VIDEO output on your device. Connect the audio cable between the **AUDIO INPUTS** (indicated with number **7** in the illustration) on the TV and the audio jacks on your device.
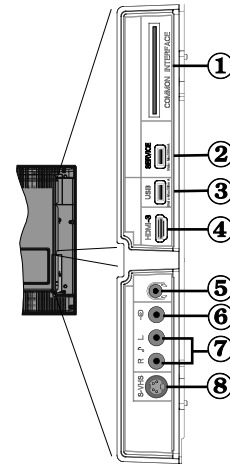
Power Connection

IMPORTANT: The TV set is designed to operate on 220-240V AC, 50 Hz.

• After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

• Plug the power cable to the mains socket outlet.

Aerial Connection

• Connect the aerial or cable TV plug to the AERIAL INPUT socket located at the rear of the TV.
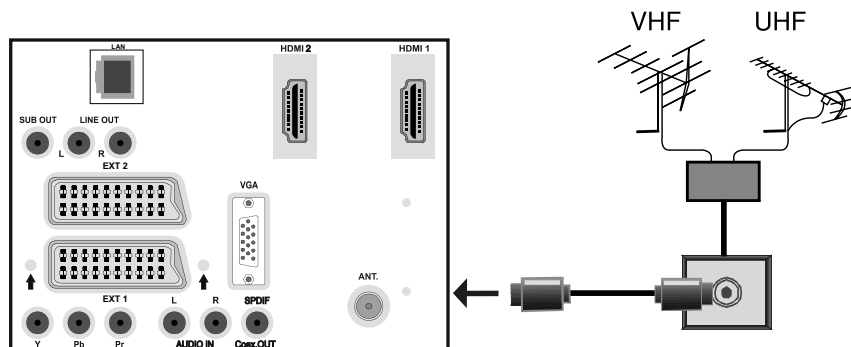
Using USB Input

• You can connect USB devices to your TV by using the USB input of the TV. This feature allows you to display/play JPG and MP3 files stored in a USB stick.

• It is possible that certain types of USB devices (e.g. MP3 Players) may not be compatible with this TV.

• You may back up your files before making any connections to the TV set in order to avoid any possible data loss. Note that manufacturer will not be responsible for any file damage or data loss.

• Do not pull out USB module while playing a file.

• The TV supports only FAT32 disk formatting. NTFS format is not supported. If you connect a USB disk with NTFS format, **"usb is unformatted"** osd will be displayed.

CAUTION: Quickly plugging and unplugging USB devices, is a very hazardous operation. Especially, do not repeatedly quickly plug and unplug the drive. This may cause physical damage to the USB player and especially the USB device itself.

SIDE VIEW   USB MEMORY
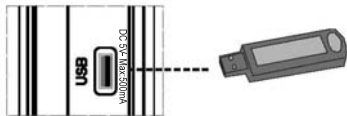
USB Memory Connection

• Plug your USB device to the USB input of the TV.

• If the plugged USB disk is not recognised, please reinsert the disk.

• It is recommended that you connect your USB device directly to the **Side USB input 2** of the TV. Some compatibility problems may occur if you use a separate cable connection.

Connecting the LCD TV to a PC

For displaying your computer's screen image on your LCD TV, you can connect your computer to the TV set.

• Power off both computer and display before making any connections.

• Use 15-pin D-sub display cable to connect a PC to the LCD TV.

• When the connection is made, switch to PC source. See "Input selection" section.

• Set the resolution that suits your viewing requirements. Resolution information can be found in the appendix parts.
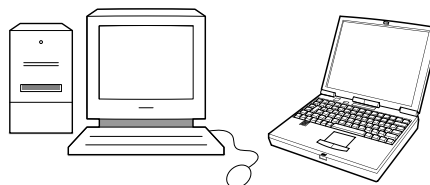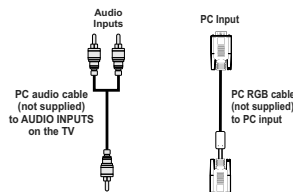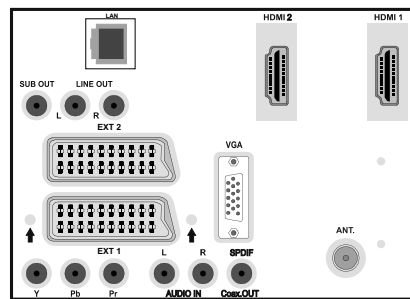
Connecting to a DVD Player

If you want to connect a DVD player to your LCD TV, you can use connectors of the TV set. DVD players may have different connectors. Please refer to your DVD player's instruction book for additional information. Power off both the TV and the device before making any connections.

Note: Cables shown in the illustration are not supplied.

- If your DVD player has an HDMI socket, you can connect via HDMI. When you connect to DVD player as illustrated below, switch to HDMI source. See, "Input Selection" section.
- Most DVD players are connected through COMPONENT SOCKETS. Use a component video cable to connect video input. For enabling audio, use a component audio cable as illustrated below. When the connection is made, switch to **YPbPr** source. See, "Input selection" section.
- You may also connect through the EXT 1 or EXT 2. Use a SCART cable as shown below.

Note: *These three methods of connection perform the same function but in different levels of quality. It is not necessary to connect by all three methods.*

Scart sockets   **Component video inputs**   **Component audio inputs**   **HDMI inputs**

DVD Player
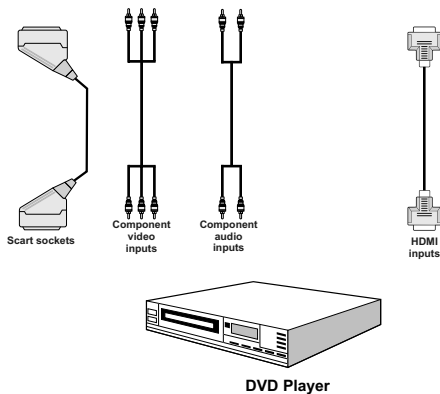
Using Side AV Connectors

You can connect a range of optional equipment to your LCD TV. Possible connections are shown below. Note that cables shown in the illustration are not supplied.

- For connecting a camcorder, connect to the S-VIDEO or VIDEO IN socket and the AUDIO SOCKETS. Do not connect the camcoder to S-VIDEO and VIDEO IN socket at the same time since it can cause noise in the picture. For selecting the related source, see the section "Input selection" in the following parts.
- To listen to the TV sound from headphones, connect to the HEADPHONE jack of theTV.

Headphone

Camcorder
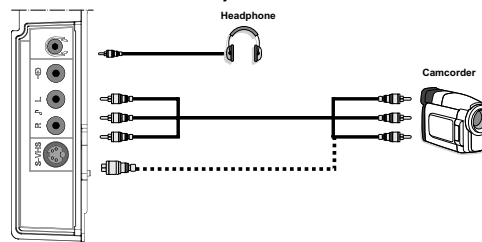
Connecting Other Equipment via Scart

Most devices support EXT (SCART) connection. You can connect a; DVD recorder, a VCR or a decoder to your LCD TV by using the EXT (SCART) sockets. Note that cables shown in the illustration are not supplied.

Power off both the TV and the devices before making any connections.

For more information, refer to your device's own instruction book.

Scart sockets

DVD Recorder   Video Recorder   Decoder

English - 13 -
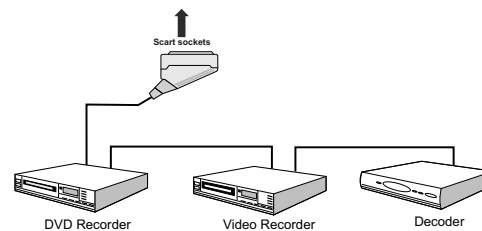
Input Selection

Once you have connected external systems to your TV, you can switch to different input sources.

• Press "**SOURCE**" button on your remote control for directly changing sources.

or,

• Select "**Source**" option from the main menu by using "◄" or "►" button. Use then "▼" or "▲" button to highlight an input and press "►" button to select.

*Note: You can mark desired source options by pressing the OK button. Therefore, when "**SOURCE**" button is pressed, only the marked source options will be available (except for the TV source).*

```
       ┌──┐ ┌──┐ ┌──┐ ┌──┐ ┌──┐ ┌──┐ ┌──┐
       │▢◀│ │♫ │ │▨ │ │⚙ │ │▤ │ │🚀│ │🎬│
       └──┘ └──┘ └──┘ └──┘ └──┘ └──┘ └──┘
              SOURCE  :  TV

       TV                          ✓
       DTV                         ✓
       EXT-1                       ✓
       EXT-2                       ✓
       SIDE AV                     ✓
       S-VIDEO                     ✓
       HDMI-1                      ✓
       HDMI-2                      ✓
       HDMI-3                      ✓
       YPbPr                       ✓
```

Basic Operations

You can operate your TV using both the remote control and onset buttons.

Operation with the Buttons of the TV

Volume Setting

• Press "— ◢" button to decrease volume or ◢ **+** button to increase volume, so a volume level scale (slider) will be displayed on the screen.

Programme Selection

• Press "**P/CH +**" button to select the next programme or "**P/CH -**" button to select the previous programme.

Viewing Main Menu

• Press the "**MENU**" button to enter main menu. In the main menu select sub-menu using "**P/CH -**" or "**P/CH +**" buttons and enter the sub-menu using "— ◢" or "◢ **+**" buttons. To learn the usage of the menus, refer to the menu system sections.

AV Mode

• Press the "**TV/AV**" button in the control panel on the TV to switch between AV modes.

Operation with the Remote Control

• The remote control of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

• Functions of the menu system are described in the following sections.

Volume Setting

• Press "**V+**" button to increase the volume. Press "**V -**" button to decrease the volume. A volume level scale (slider) will be displayed on the screen.

Programme Selection (Previous or Next Programme)

• Press "**P -**" button to select the previous programme.

• Press "**P +**" button to select the next programme.

Programme Selection (Direct Access)

• Press numeric buttons on the remote control to select programmes between 0 and 9. The TV will switch to the selected programme. To select programmes between 10 - 1000 (for IDTV) or 10-199 (for analogue), press the numeric buttons consecutively.Press directly the programme number to reselect single digit programmes.

Initial Settings

When the TV is turned on for the first time, it is in the digital mode. Because this is the first time the TV is used, there are no channels stored in the memory and the following message appears on the screen.

```
┌─────────────────────────────────────────┐
│  Do you want to start an automatic channel scan? │
│  ┌──────────────┐    ┌──────────────┐   │
│  │     Yes      │    │      No      │   │
│  └──────────────┘    └──────────────┘   │
└─────────────────────────────────────────┘
```
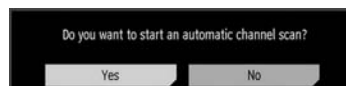
• To select the "Yes" or "No" option, highlight the item by using "◄" or "►" buttons and press **OK** button.

The IDTV will automatically tune to the transmission channels, searching for digital terrestrial TV broadcasts and displaying the names of channels found. This process will take a few minutes. To cancel searching, you can press **MENU** button at any time during the process. The following OSD will be displayed during the automatic search:

```
┌─────────────────────────────────────────┐
│ Automatic channel scan                   │
│                                          │
│ Scanning UHF channel: 51              ○  │
│ Please wait. This will take a few minutes.│
│ �_____     │
│                                          │
│ Rai: SAT2000                          ┃  │
│ Rai: Rai Gulp                         ┃  │
│ Rai: RADIOUNO                         ┃  │
│ Rai: RADIODUE                         ┃  │
│ Rai: RADIOTRE                         ┃  │
│ T2 Example: BBC R&D HD1               ┃  │
│ T2 Example: BBC R&D HD2               ┃  │
│ T2 Example: BBC R&D HD3               ┃  │
│ T2 Example: BBC R&D HD4               ┃  │
│                                          │
│ MENU Cancel scan                         │
└─────────────────────────────────────────┘
```

English - 14 -
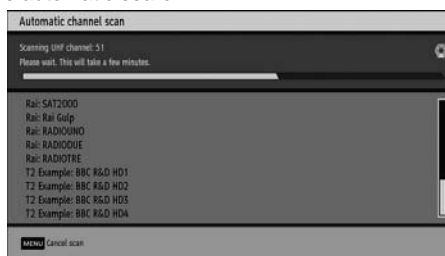
After Automatic Search is completed, the following message, asking for analogue channel search, appears on the screen.

Do you want to search for analogue channels?

| Yes | No |

To search for analogue channels, select "Yes". TV switches to the analogue TV mode. A menu will be displayed to search for analogue channels.

Set **Language** item by pressing "◀" or "▶" button. Press "▼" or "▲" button to highlight **Country** item and then use "◀" or "▶" to set. Press "▼" or "▲" button to highlight **TXT. Language**. Set TXT Language by using "◀" or "▶" button. To cancel, press the **BLUE** button. When finished, press **OK** or **RED** button to continue and the following OSD will be displayed:

APS is running...

UK   254.00 MHz
                              25%

                         Cancel

After **automatic tuning** is finalized, a programme list will appear on the screen. In the programme list you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and/or the names of the programmes, you can change them in Program table. For details, see the section, "Program table".
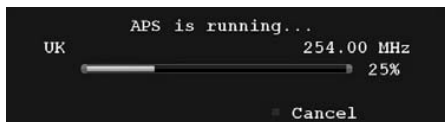
General Operation

Press the **SOURCE** button and select DTV from the list. The TV then switches to digital TV mode.

Information Screen

• Whenever you change the channel using the **P +** or **P -** button or numeric buttons, the TV displays the broadcast picture along with an information banner at the bottom of the screen. This will remain on the screen for approximately a few seconds.

• The information banner can also be displayed by pressing the **INFO** button at any time while watching the TV. Pressing **INFO** button again removes the banner.

When info banner is on screen, you can use Up or Down cursor buttons to browse channels.

| 816 | RaiNotizie24 | SD | TV | 20:27 |

Now:
No information available

Next: 22:00-22:09
News e meteo

If the selected channel is locked, you must enter the correct four digit key to view the channel. In this case, a dialog box asking for the lock key will be displayed:

Enter PIN
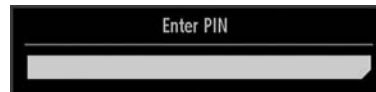
Electronic Programme Guide (EPG)

Some, but not all, channels send information about the current and next events. Please note that event information is updated automatically. If there are no event information data available for channels,EPG will be displayed with blanks.

• Press **EPG** button to view the **EPG** menu.

• Press "▼" or "▲" buttons to navigate through channels.

• Press "◀" or "▶" buttons to navigate through the programme list.

English - 15 -
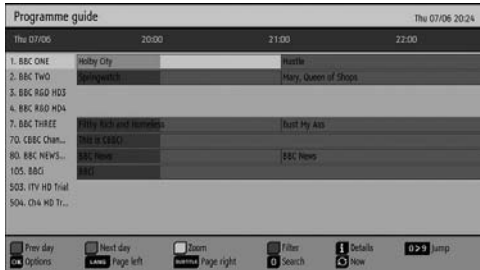
RED button (Prev. Day): displays the programmes of previous day.

GREEN button (Next day): displays the programmes of the next day.

YELLOW button (Zoom): Expands programme information.

BLUE button: displays filtering options.

INFO (Details): displays the programmes in detail.

OK (View): shows the highlighted channel / views options.

Numeric buttons (Jump): go to preferred channel directly via numeric buttons.

LANG: Scrolls page left.

SUBTITLE: Scrolls page right.

SWAP: Jumps to the current programme.

0 (SEARCH): activates "Guide Search" window

Press **"0"** button to view Guide Search menu. Using this feature, you can search the programme guide database in accordance with the genre selected or with name match.

Programme Options

In EPG menu, press the **OK** button to enter the "Programme Options" menu.

Using this option, you can switch to the selected channel or exit.

Over Air Download

To ensure that your IDTV always has the most up-to-date information, please ensure that, after use, it is set to standby mode. At 3 A.M. each day, the IDTV automatically searches for any updates which may be broadcast and will download this to your IDTV automatically. This operation will normally take approximately 30 minutes.
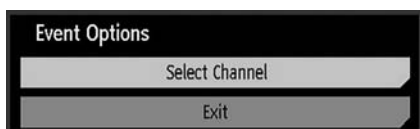
Displaying Subtitles

With digital terrestrial broadcasting (DVB-T), some programmes are broadcast with subtitles.

Note: You can enable subtitles by pressing the SUBTITLE button.

Digital Teletext

• Press the TELETEXT (▤) button.

• The digital teletext information appears.

• Operate it with the coloured buttons, "▼" / "▲" / "◀" or "▶"buttons and OK button.

The operation method may differ depending on the contents of the digital teletext.

Follow the instructions displayed on digital teletext screen.

• When "Press **"SELECT"** button or similar message appears on the screen, press the **OK** button.

• When the TELETEXT (▤) button is pressed, the TV returns to television broadcasting.

• With digital terrestrial broadcasting (DVB-T), in addition to digital teletext broadcasting together with the normal broadcasting, there are also channels with just digital teletext broadcasting.

• The aspect ratio (picture shape) when watching a channel with just digital teletext broadcasting is the same as the aspect ratio of the picture viewed previously.

• When you press the TELETEXT (▤) button again, the digital teletext screen will be displayed.

Analogue Teletext

Use of teletext and its functions are identical to the analogue text system. Please do refer to the "**TELETEXT**" explanations.

Widescreen

Depending on the type of the broadcast being transmitted, programmes can be viewed in a number of formats. Press the **SCREEN** button repeatedly to change screen format.

When Auto is selected, the format being displayed is determined by the picture being broadcast.

IDTV Menu System

• Press **MENU** button and DTV main menu will be displayed.

Channel List

Using "▼" or "▲" buttons on the remote control in main menu, make sure that the first item, Channel List, is highlighted and press the **OK** button to display the Channel List. Or you press the OK button during watching DVB-T broadcasting and get to the Channel List directly.

• Channel List is the place where the channels are managed.

Navigating the Entire Channel List

• Press "▼" or "▲" keys for selecting the previous or next channel.

• You can press ▲ or ▼ buttons to move page up or page down.

• To watch a specific channel, highlight it using "▼" or "▲" buttons and then press **OK** button, while the **"Select"** item on Channel List menu is highlighted via "◀" or "▶" buttons.

Moving the channels in the channel list

• Press "▼" or "▲" buttons to select the channel that will be moved.

• Press "◀" or "▶" buttons to select the ''Move'' item on Channel List menu and press **OK** to confirm.

Note: *If you enter the same programme number of the channel that you want to move,* **"....services will be replaced. Do you want to continue?"** *OSD will be displayed. Press* **OK** *to confirm or select* **"No"** *to cancel.*

Deleting the Channels in the Channel List

• Press "▼" or "▲" buttons to select the channel that will be deleted.

• Press "◀" or "▶" buttons to select the **"Delete"** item on Channel List OSD.

Press **"OK'** button to delete the highlighted channel in the channel list. Then the message below appears on the screen.
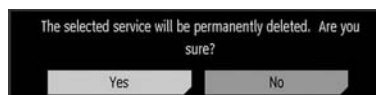
Note: You can tag/untag a selected channel by using YELLOW button. Use GREEN button to Tag/Untag all channels.

Renaming channels

To rename a specific channel, the channel must be highlighted via pressing "▼" or "▲" buttons and then highlight the **"Edit Name"** item by pressing "◀" or "▶" buttons. Press **"OK"** button to activate rename feature.

Now pressing "◀" or "▶" buttons moves to the previous/ next character. Pressing "▼" or "▲" buttons toggles the current character, i.e., **'b'** character becomes **'a'** on and **'c'** on . Pressing the numeric buttons **'0...9'** replaces the highlighted character with the characters printed above the key one by one as the button is pressed.

Press the **MENU** button to cancel the editing or **OK** button to save the new name.

Adding Locks to Channels

Channel Locking provides a password-protected access to channels selected by parents.

In order to lock a channel you should know the **Parental Lock** password (default value is set to 0000 in the factory and can only be changed from the **Configuration menu**).

By pressing "▼" or "▲" buttons, highlight the channel to be locked and select the **"Lock"** option by pressing "◄" or "►" buttons. Then press the **OK** button and a password box is displayed:

```
                 Enter PIN
```

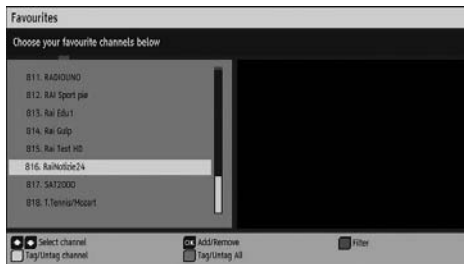## Setting Favourites

To set a favourite you should highlight the **"Favourites"** item at the bottom of the Channel List menu. Then press **OK** button and **Edit Favourite List** menu appears on the screen.

Note: You can tag/untag a selected channel by using YELLOW button. Use GREEN button to Tag/Untag all channels.

Adding a Channel to a Favourites List

By pressing "▼" or "▲" buttons, highlight the channel that you want to add to the favourite list. By pressing **OK** button, the highlighted channel is added to Favourite List. **F** icon indicates that a channel is added to Favourite List.

Removing a Channel from a Favourite List

• Highlight the channel that you want to remove from the favourite list and press **OK** button to remove.You can press **OK** button again to re-adding a channel.

• To activate Favourites, go to the Configuration menu and select Favourite mode. Use "◄" or "►" to set Favourite mode as on. To cancel Favourites, set Favourite Mode to Off.

Program Guide

This section is same with the instructions given in the General Operations page. Please see Electronic Programme Guide (EPG) section in the General Operations part.

Common Interface

Press **MENU** button to display the main menu and use the "▼" or "▲" buttons to highlight the "**Common Interface**" line and press **OK** button.

It is required to subscribe to a pay channel company to view the pay channels of the Digital Terrestrial broadcasting.

Obtain the Conditional Access Module (CAM) and the viewing card by subscribing to a pay channel company, then insert those to the Television using the following procedure.

• Switch off the TV and unplug from the mains.

• Insert the CAM, and then the viewing card to the slot.

• The CAM should be correctly inserted, it is impossible to insert fully if reversed. The CAM or the TV terminal may be damaged if the CAM is forcefully inserted.

• Connect the TV to the mains supply, switch on and then wait for few moments until the card is activated.

• Some CAMs may require the following set up. Please set the CAM by entering the DIGITAL TV menu, Common Interface then pressing OK button. (CAM set up menu is not displayed when it is not required.)

•To see the viewing contract information:

• Enter DIGITAL TV; press **MENU** button, then highlight Common Interface and press **OK** button.

• When no module is inserted, "**No Common Interface module detected**" message appears on the screen.

• Refer to the module instruction manual for details of the settings.

*NOTE: Insert or remove the CI module only when the TV is in **STANDBY** mode or **SWITCHED OFF**.*

TV Setup

You can use this item to display the TV functions.

The digital TV Setup menu screen is accessed from the main menu. Press the **MENU** button to display the main menu and use or buttons to highlight "**TV Setup**". Press **OK** button to display TV Setup menu screen.

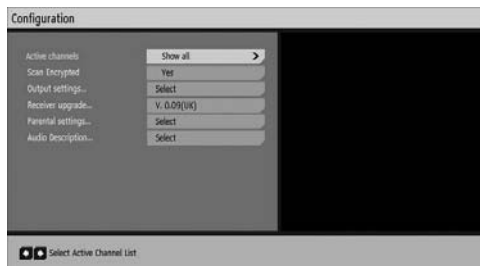You can find detailed information for all menu items in "**Analogue TV Menu System**" section.

Setup

The adjustments in this menu are given as the following:

Setup

Setup
Configuration
Language
IP Settings
Installation

Configuration

You can configure the settings of your TV. Select **Configuration** from Setup menu and press **OK** to view this menu. Press the **RETURN** button on the remote control to exit.

Configuration

Active channels	Show all >
Scan Encrypted	Yes
Output settings..	Select
Receiver upgrade..	V. 0.09(UK)
Parental settings..	Select
Audio Description..	Select

◄► Select Active Channel List

Active Channels

You can select broadcasts to be listed in the channel list. To display specific types of broadcast, you should use active channel list setting. Select Active channel list by using "▼" or "▲" button. Press **OK** button to continue.

Scan Encrypted

Scan Encrypted Channel feature will always be **YES** after performing first time installation. When this setting is on, search process will locate the encrypted channels as well. If it is set as **NO** manually, encrypted channels will not be located while in automatic search or manual search. Use "▼" or "▲" button to select Scan Encrypted and then press "◄" or "►" button to set this setting as Yes or No.

Output Settings

You can use this option to configure output settings.

Output Settings

Output Settings	
AC3 audio	◄ On
SPDIF Delay	0
Digital Audio	PCM
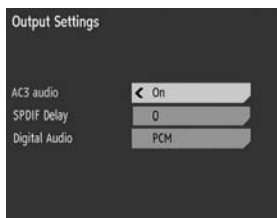
AC3 Audio

Highlight the AC3 Audio item by pressing "▼" or "▲" buttons. Use the "◄" or "►" buttons to set the AC3 Audio as On or Off.

If the channel that you are watching supports AC3 Audio, turn this setting on.

SPDIF Delay

You can use this setting when there is an synchronization problem in the received broadcast. Press "◄" or "►" button to change the delay or use numeric buttons to enter SPDIF Audio delay manually. When finished, press **GREEN** button to apply.

SPDIF Audio

Use this setting to define digital audio out signal type. Use "◄" or "►" buttons to set **SPDIF Audio** as **Bitstream** or **PCM**. If your selected channel includes **Bitstream** sound stream, you should connect your TV to external equipment by using spdif out of your TV for enabling the sound output. If you have no external sound equipment, please select Digital Audio Out as "PCM" by using "◄" or "►" button.

Receiver Upgrade

Over Air Download (OAD)

To ensure that your TV always has the most up to date information, use this setting. Please ensure that the TV is set to standby mode. The TV automatically powers up at 3.00 A.M. each day and searches for any new information which may be broadcast and will download this to your receiver automatically. This operation will normally take approximately 30 minutes. If you have an important recording to be carried out at 3.00 A.M. and you do not want to interrupt it, disable auto OAD search by performing the following:

• Press **MENU** button and using the "▼" or "▲" buttons to choose **Setup** and press **OK** button.

• Highlight Configuration menu with "▼" or "▲" keys and press **OK**.

• Using the "◄" or "►" button change "**Automatic scanning**" from Enabled to Disabled.

Upgrade options

Upgrade options
Automatic scanning
◄ Enabled
Scan for upgrade
Select
USB Upgrade
Start
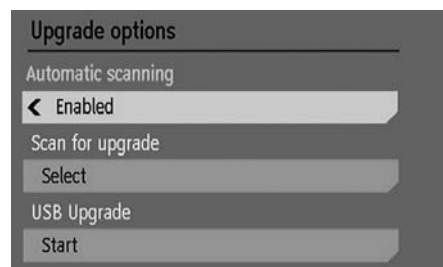
• Highlight "**Scan for upgrade**" menu with "▼" or "▲ "keys and pres **OK** to commence upgrade.

Software upgrade
This software was built on
2010-02-12 at 10:25:46.
Searching for new software...
Search progress:
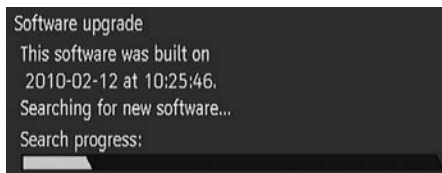
- After the search progress is completed, the message " Completed searching for upgrade. No new software was found" appears on the screen if no new software is found.

Parental Control

- Some channels broadcast material which you do not want younger members of the family to watch. Any channel can be 'locked' so that it cannot be selected for viewing unless a four-digit PIN code is entered. In this way any channel not suitable for younger viewers can be prohibited.
- This function enables or disables the menu protection system and allows the PIN code to be changed.
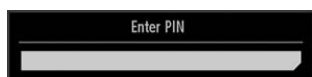- Use "▼" or "▲" buttons to highlight Parental Control. Press **OK** button to enter Parental Control menu. A dialog box asking for the lock key is displayed:

Enter PIN

There is only one key which is set to "**0000**" initially. Enter lock key. If wrong lock key is entered, the "**WRONG PIN**" message will be displayed on the screen and the TV returns to the previous menu. If the PIN is correct, the Parental Control menu including following items will be displayed:

Parental settings

Menu lock	Disabled	>
Guidance	Disabled	
Set PIN	Select	
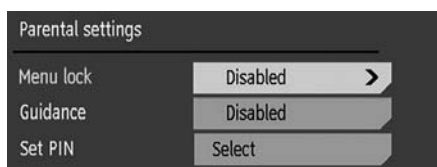
Menu Lock

Use "◀" or "▶" buttons to set Menu Lock. Here, you can set/reset locking function for the main menu or the installation menu to restrict access. If the menu lock is disabled, there will be free access to the menu system.

Disabled: All menus are unlocked.

All Menus: All menus are accessible only with the correct lock key. So the user cannot add, delete, rename or move the channels.

Installation Menu: Installation menu is locked, so the user cannot add channels. Changes will be updated after exiting Configuration Menu.

Guidance

When set, this option gets the maturity information from the broadcast and if this maturity level is disabled, the TV will not display the related video-audio.

Set PIN

Use "▼" or "▲" buttons to go to "Set PIN" option. Press **OK** to display the "Set PIN" window. Use numeric buttons to enter new pin number you will need to input your new pin a second time for verification purposes. The factory default pin number is 0000, if you change the pin number make sure you write it down and keep it safe.

Audio Description (Optional)

Audio description refers to an additional narration track for blind and visually impaired viewers of visual media. You can use this feature, only if the broadcaster supports that additional narration track. Select Audio Description and press **OK** button to view contents.

Audio Description

Audio Description	Off	>
Available Langs.	None	
Preferred Lang.	English	
Relative Volume		0
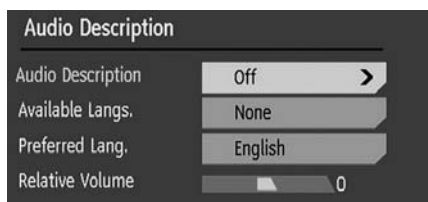
Use "▼" or "▲" buttons to select an item. Then use " ◀" or "▶" buttons to set.

Audio Description

This function enables or disables the audio description feature by pressing the "◀" or "▶"buttons.

Available Langs.

This feature displays available languages. If more than one language is available, you can select between available languages by using "◀" or "▶" button.

Preferred Language

By pressing the "◀" or "▶"buttons the preferred audio description language is being changed. This setting can be used, only if it is available.

Relative Volume

Using this option, the Audio Description volume level can be increased or decrased relatively, according to the general volume.

Language Settings

In this menu the user can adjust the preferred language. Select "Language" item in the Setup menu and press OK button. Then language settings menu will be displayed.
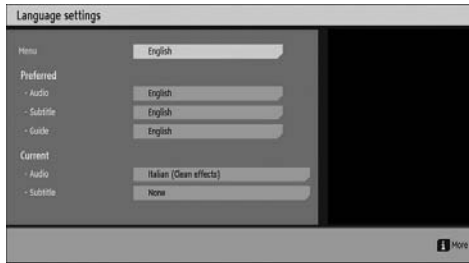
You can set the desired language options by using "▼" /"▲" and "◄"/"▶" buttons.

IP Settings
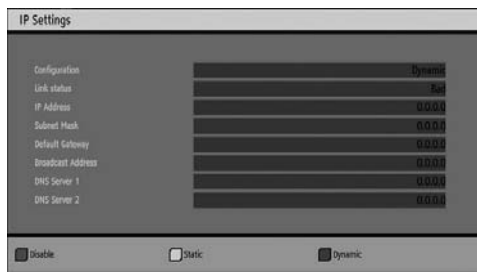
You can configure your TV's IP settings by using this menu screen. Press **YELLOW** button to set static IP settings. Use **BLUE** button to configure dynamic IP settings. You can press **RED** button to disable IP configuration.

• In order for the Ethernet host to work correctly with your Internet connection it needs to have a unique IP address. In most cases all of the parameters can be provided by the DHCP server in their router. In this case you should use the "Dynamic" option.

• In the unlikely event that you dou not have a DHCP server in your router or if you prefer to assign your own IP address, then the "Static" option can be used. You will need to enter a unique IP address along with the default gateway and DNS server. In most domestic networks the default gateway and DNS server will both be the IP address of the router.

Installation

The Installation menu is mainly intended to help you for creating a Channel Table in most efficient way. Select Installation from the main menu by pressing " ▼" or "▲" buttons.

Automatic Channel Scan

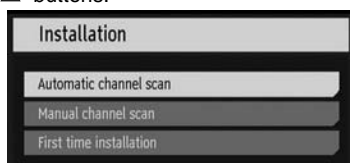Automatic channel scan is started by pressing **OK** button while Automatic channel scan item is highlighted.

The following message appears on the screen:
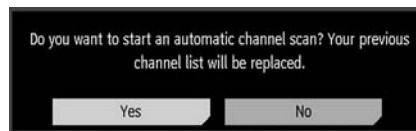
Highlight **Yes** or **No** by using "◄" or "▶" buttons and press **OK** button to confirm.

If **Yes** is selected, automatic search starts.

Selecting **No** cancels automatic search.

After search is completed for digital channels, a message asking whether to search for analogue channels appears on the screen:
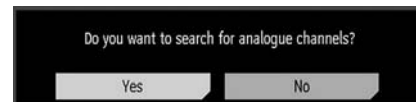
Highlight **Yes** and press **OK** button to search for analogue channels. The following menu appears on the screen for analogue channel search:

Set Language item by pressing "◄" or "▶" button. Press "▼" or "▲" button to highlight Country item and then use "◄" or "▶" to set. Press "▼" or "▲" button to highlight TXT Language. Select a region by using "◄" or "▶" button. When finished, press OK or RED button to continue. To cancel, press the BLUE button.
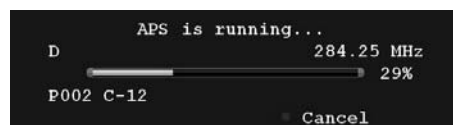
After **APS** is finalized, the programme table will appear on the screen. In the programme table you will see

English   - 21 -

the programme numbers and names assigned to the programmes.

Manual Search

In Manual Search, the number of the multiplex is entered manually and only that multiplex is searched for the channels. For every valid channel number, signal level and signal quality are shown on the screen.

In both manual and auto search any existing channel in the database is not re-stored to avoid redundant duplicates of that channel.

First Time Installation

The user can use this item to load default settings, which were loaded to the receiver at the factory.

To install factory settings, highlight "**First Time Installation**" menu item and press **OK** button, then you will be asked whether or not to delete the settings. Selecting "**Yes**" by pressing **OK** button while the "**Yes**" is highlighted, will delete the existing channel table.

Do you want to delete all channels and settings for first time installation?

| Yes | No |

After factory settings are loaded, a message asking for automatic search appears on the screen:

Do you want to start an automatic channel scan?

| Yes | No |

Highlight "**Yes**" item by pressing "◀" or "▶" buttons and press **OK** button to start installation. After search is completed for digital channels, a message asking whether to search for analogue channels appears on the screen. This process is same as described in
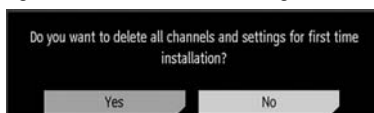
Automatic Search section.

Analogue TV Menu System

Picture Menu

PICTURE		
Mode		Natural
Contrast	▭▬▬▭	45
Brightness	▭▬▬▭	45
Sharpness	▭▬▭	8
Colour	▭▬▬▭	40
Colour Temp.		Normal
Noise Reduction		Low
Film Mode		Off
Game Mode		Off
Picture Zoom		Auto
No Signal		

Mode

For your viewing requirements, you can set the related mode option.

Press "▼" or "▲" button to select **Mode**. Press "◀" or "▶" button to choose from one of these options: **Natural, Cinema** and **Dynamic.**.

Contrast/Brightness/Sharpness/Colour/Hue

Press "▼" or "▲" button to select the desired option. Press "◀" or "▶" button to set the level.

Note: Hue option can only be visible when the TV receives an NTSC signal.

Colour Temp

Press "▼" or "▲" button to select **Colour Temp**. Press "◀" or "▶" to choose from one of these options: Normal, Warm and Cool..

Note:

• *For normal colours, select **Normal** option.*

• *Setting **Warm** option gives white colours a slight red stress.*

• *Setting **Cool** option gives white colours a slight blue stress.*

Noise Reduction

If the broadcast signal is weak and the picture is noisy, use **Noise Reduction** setting to reduce the noise amount.

Press "▼" or "▲" button to select **Noise Reduction.** Press "◀" or "▶" to choose from one of these options: **Low**, **Medium**, **High** or **Off**.

Film Mode

Films are recorded at a different number of frames per second to normal television programmes.

Press "▼" or "▲" button to select **Film Mode**.

Press "◀" or "▶" button to set this feature On or Off.

Turn this feature on when you are watching.

films to see the fast motion scenes clearly.

Game Mode (optional)

Select **Game Mode** by pressing "▼" or "▲" button. Use "◀" or "▶" button to set Game Mode as **On** or **Off**. When Game Mode is set to On, specific game mode settings, which are optimized for better video quality, will be loaded.

Also; Picture Mode, Contrast, Brightness, Sharpness, Colour and Colour Temp settings will be invisible and disabled while Game Mode is on.

Note:

Picture mode selection button on the remote control will have no function while Game Mode is on.

Picture Zoom

Select **Picture Zoom** by pressing "▼" or "▲" button.

Use "◄" or "►" buttons, to change picture zoom to **Auto**, **16:9**, **4:3**, **Panoramic**, **14:9**, **Cinema**, **Subtitle** or **Zoom**.

Note : Picture mode settings can be set 16:9 or 4:3 only while in Digital Tv mode.

Reset

Press "▼" or "▲" button to select **Reset**. Press "◄" or "►" or **OK** button to reset the picture modes to factory default settings.

Store

Press "▼" or "▲" button to select Store. Press "►" or **OK** button to store the settings. "**Stored...**" will be displayed on the screen.

Sound Menu

Volume

Press "▼" or "▲" button to select **Volume**. Press "◄" or "►" button to change the level of the Volume.

Equalizer

Press "▼" or "▲" button to select **Equalizer**. Press "►" button to view equalizer menu.
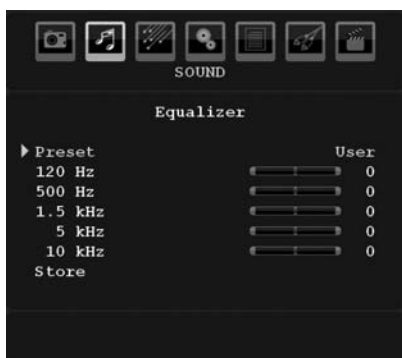
Press "◄" or "►" button to change the preset. In equalizer menu, the preset can be changed to **Flat, Classic, User, Music, Movie** and **Speech.**

Select the desired frequency by pressing "▼" or "▲" button and increase or decrease the frequency gain by pressing "◄" or "►" button.

Press the "**MENU**" button to return to the previous menu.

*Note: Equalizer menu settings can be changed only when the **Equalizer Mode** is in **User**.*

Balance

This setting is used for emphasizing left or right speaker balance.

Press "▼" or "▲" button to select **Balance**. Press "◄" or "►" button to change the level of the balance. Balance level can be adjusted between **-32** and **+32**.

Headphone

Press "▼" or "▲" button to select **Headphone**. Press "►" button to view the headphone menu.

Headphone sub-menu options are described below:

Volume

Press "▼" or "▲" button to select **Volume**. Press "►" button to increase headphone volume level. Press "◄" button to decrease headphone volume level. Headphone volume level can be adjusted between 0 and 63.

Sound Mode

Press "▼" or "▲" button to select **Sound Mode**. Using "◄" or "►" button, you can select Mono, Stereo, Dual I or Dual II mode, only if the selected channel supports that mode.

AVL

Automatic Volume Limiting (AVL) function adjusts the sound to obtain fixed output level between programmes (For instance, volume level of advertisements tend to be louder than programmes).

Press "▼" or "▲" button to select **AVL**. Press "◄" or "►" button to set the AVL as **On** or **Off**.

Spdif Out

Press "▼" or "▲"" button to select Spdif Out . Press "◄" or "►" button to set the Spdif Out as On or Off .

Effect

If you are watching a mono broadcast, set Effect on to obtain a better sound effect which will be more stereo-like. If the current sound system is stereo, switching this effect on will give a more spatial effect.

Press "▼" or "▲" button to select Effect. Press "◄" or "►" button to set as On or Off .

Store

Press "▼" or "▲" button to select Store. Press "▶" or **OK** button to store the settings. "**Stored...**" will be displayed on the screen.

Feature Menu

Sleep Timer

Press "▼" or "▲" button to select **Sleep Timer**. Use "◀" or "▶" button to set the **Sleep Timer**.

The timer can be programmed between Off and 2 hours (120 minutes) in steps of 10 minutes.

If **Sleep Timer** is activated, at the end of the selected time, the TV goes automatically to standby mode.

Child Lock

Press "▼" or "▲" button to select **Child Lock**.

Use "◀" or "▶" button to set the Child Lock **On** or **Off**. When On is selected, the TV can only be controlled by the remote control. In this case the control panel buttons will not work, except for the Standby/On button. When Child Lock is activated you are able to switch the TV into Standby mode with the Standby/On button. To switch the TV on again, you need the remote control. In this case the control panel buttons (except for the **STANDBY** button) will not work. Hence, if one of those buttons is pressed, Child Lock Is On will be displayed on the screen when the menu screen is not visible.

Language

Press "▼" or "▲" button to select **Language**. Use "◀" or "▶" button to select the **Language**.

Default Zoom

While zoom mode is set as AUTO, the TV will set the zoom mode in accordance with the signal of the broadcast. If there is no WSS or aspect ratio information, the TV will then use this setting to adopt. Press "▼" or "▲" button to select **Default Zoom**. You can set **Default Zoom** to **16:9, 4:3, Panoramic** or **14:9** by pressing "◀" or "▶" button.

Note : Default Zoom feature will not be available while in Digital Tv mode.

Blue Background

If the signal is weak or absent, the TV will automatically change to a blue screen. To enable this, set **Blue Background** to **On**.

By pressing "▼" or "▲" button, select **Blue Background**. Press "◀" or "▶" button to set **Blue Background** as **On** or **Off**.

Menu Background

Press "▼" or "▲" button to select **Menu Background**. You can set menu background level by pressing "◀" or "▶" button.

Power Save Mode

Use "▼" or "▲" button to select Power Save Mode.

Press "◀" or "▶" button to set Power Save Mode as On or Off.

See the section, "Environmental Information" in this manual for further information on Power Save Mode.

Note : Backlight function will be invisible if Power Save Mode is set to on.

Backlight

This setting controls the backlight level. Select **Backlight** by pressing "▼" or "▲" button. Press "◀" or "▶" button to set **Backlight** to **Auto, Medium**, **Maximum** or **Minimum**.

Menu Timeout

To set a specific display timeout for menu screens, set a value for this option.

Press "▼" or "▲" button to select **Menu Timeout**. Use "◀" or "▶" button to change menu timeout to **15 sec**, **30 sec** or **60 sec**.

TXT (Teletext) Language

Press "▼" or "▲" button to select **Teletext Language**. Use "◀" or "▶" button to change **Teletext Language** to **West, East, Cyrillic, Turk/Gre, Arabic** or **Persian.**

HDMI PC Full Mode

If you want to view PC screen in HDMI mode by using external connection, HDMI PC FULL MODE option should be On to adjust the screen ratio correctly. This item might be inactive in some resolutions.

Note: If you connect an HDMI device and switch the TV to HDMI mode, this feature will be visible (except for 480p/576p resolution).

Full Mode (optional)

If you connect a device via HDMI or YPbPr connectors and set 1080i/1080P resolutions, Full Mode item will be visible.You can set Full Mode as 1:1 or Normal by using "◀" or "▶".If you select 1:1, screen ratio will be adjusted correctly. If you set Normal, screen ratio may expand.

Ext Out

Press "▼" or "▲" button to select Ext Out. Use "◀" or "▶" button to set the Ext Out as On or Off.

Note:

For copying from a DVD or VCR device, you should choose desired source from source menu and turn "On" to EXT Out from feature menu.

Install Menu

Program

Press "▼" or "▲" button to select Program. Use "◀" or "▶" button to select the program number. You can also enter a number using the numeric buttons on the remote control. There are 200 programme storage between 0 and 199.

Band

Band can be selected either C or S. Press "◀" or "▶" button to set Band.

Channel

Channel can be changed by "◀" or "▶" button or numeric buttons.

Colour System

Press "▼" or "▲" button to select Colour System. Use "◀" or "▶" button to change the colour system to **AUTO, PAL, SECAM** or **PAL60.**

Sound System

Press "▼" or "▲" button to select Sound System. Press "◀" or "▶" button to change the sound system to BG,DK, I, L or L'.

Fine Tune

Press "▼" or "▲" button to select Fine Tune. Press "◀" or "▶" button to adjust the tuning.

Search

Press "▼" or "▲" button to select Search. Use "◀" or "▶" button to start programme searching. You can also enter the desired frequency using the numeric buttons while Search item is highlighted.

Store

Press "▼" or "▲" button to select Store. Press "▶" or **OK** button to store the settings. "**Stored...**" will be displayed on the screen.

Install Menu in AV Modes

The following screen appears in the install menu when the TV is in AV modes. Note that limited options will be available. Switch to TV mode for viewing complete version of the **Install** menu.
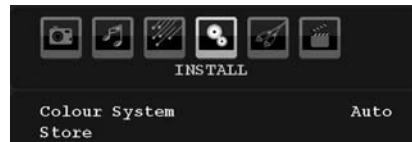
Colour System

Press "▼" or "▲" button to select **Colour System**. Use "◀" or "▶" button to change the colour system to **AUTO, PAL, SECAM, PAL60, NTSC 4,43** or **NTSC 3,58.**

Store

Press "▼" or "▲" button to select **Store Program**. Press "▶" or **OK** button to store the settings. "**Stored...**" will be displayed on the screen.

Program Table

Select **Program Table** by pressing "◀" or "▶" button.

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By moving the cursor in four directions you can reach 20 programmes in the same page. You can scroll the pages up or down by pressing the navigation buttons to see all the programmes in TV mode (except for the AV modes). By cursor action, programme selection is done automatically.

Name

To change the name of a programme, select the programme and press the **RED** button.

The first letter of the selected name will be highlighted. Press "▼" or "▲" button to change that letter and "◄" or "►" button to select the other letters. By pressing the **RED** button, you can store the name.

Move

Select the programme which you want to insert by navigation buttons. Press the **GREEN** button. By navigation buttons move the selected programme to the decided programme space and press the **GREEN** button again.

Delete

To delete a programme, press the **YELLOW** button. Pressing the **YELLOW** button again erases the selected programme from the programme list, and the following programmes shift one line up.

APS (Auto Programming System)

When you press the **BLUE** button for starting automatic tuning, **Auto Programming System** menu will appear on the screen:

Press "◄" or "►" button to select your country. If you want to exit from A.P.S. function, press the **BLUE** button. When you press **OK** or **RED** button for starting automatic tuning, all stored programmes will be erased and the TV will search for available channels. During the search, the following OSD will be displayed:
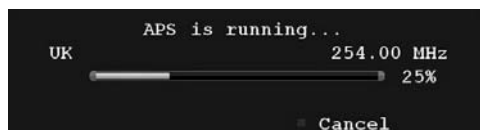
Whenever you press the **BLUE** button, APS function stops and Program Table appears on the screen.

If you wait until the end of APS, Program Table will be displayed with the programmes found and located.

Source Menu

Press "◄" or "►" button and select the sixth icon. Then press "▼" or **OK** button. Source menu appears on the screen:

In source menu, highlight a source by pressing "▼" or "▲" button and switch to that mode by pressing "►" button. Source options are; **TV**, **DTV**, **EXT-1**, **EXT-2**, **SIDE AV**, **S-VIDEO, HDMI-1**, **HDMI-2**, **HDMI-3**, **YPbPr** or **PC-VGA**.

*With the **OK** button you can set or remove a mark. When a mark is removed; this source does not appear in the OSD when you press the AV / Source button of the remote control.*

Note*: Once you have connected optional equipment systems to your TV, you should select the required input to view pictures from that source.*

Media Browser Menu

If you plug a valid USB flash drive to the TV set, the following menu will be displayed on the screen if the plugged USB unit is compatible with this TV set. Contents of this screen will change in accordance with the files stored on your USB drive.

• You can display pictures (.jpg files) or play music (.mp3 files) through the Media Browser.

Note:

• *See the section, "Using Digital Multimedia Connectors", before plugging a device to the TV set.*

• *If you enter the Media Browser menu without plugging a USB device to the TV, "No USB Device" message will be displayed on the menu screen.*

Note: Unknown file formats will be marked with a question mark.

You can use the following remote control buttons to browse between files stored on your USB drive:

Up / Down	**Explores the files.**
OK	**Views / plays a selection / enter folder.**
Menu	**Back.**
Red	**Filters JPG files.**
GREEN	**Filters MP3 files.**
"▼" / "▲"	**Select next or previous file.**

Playing .mp3 Files

If you play a mp3 file, the following screen will be displayed during the playback:

You can use cursor buttons on the remote control for available functions.

Playing .jpg Files

If you play a jpg file, the following screen will be displayed while viewing:

You can use cursor buttons on the remote control for available functions.

PC Mode Menu System

See "**Connecting the LCD TV to a PC**" section for connecting a PC to the TV set.

For switching to **PC** source, press "**SOURCE**" button on your remote control and select PC input. You can also use "**Source**" menu to switch to **PC** mode.

Note that PC mode menu settings are available only while the TV is in PC source.

PC Position Menu

Select the first icon by pressing "◄" or "►" button. **PC Position** menu appears on the screen:
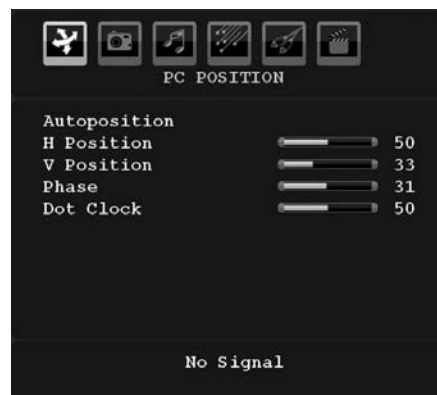
Autoposition

If you shift the picture horizontally or vertically to an unwanted position, use this item to put the picture into correct place automatically. This setting therefore automatically optimizes the display.

Select Autoposition item by using "▼" or "▲" buttons. Press **OK** or "◄", "►" button.

Warning: *Please ensure auto adjustment is performed with a full screen image to ensure best results.*

H (Horizontal) Position

This item shifts the image horizontally to right hand side or left hand side of the screen.

Select **H Position** item by using "▼" or "▲" button. Use "◄" or "►" button to adjust the value.

V (Vertical) Position

This item shifts the image vertically towards the top or bottom of the screen.

Select **V Position** item by using "▼" or "▲" button. Use "◄" or "►" button to adjust the value.

Phase

Depending on the resolution and scan frequency that you input to the TV set, you may see a hazy or noisy

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picture on the screen. In such a case you can use this item to get a clear picture by trial and error method.

Select **Phase** item by using "▼" or "▲" buttons. Use "◄" or "►" button to adjust the value.

Dot Clock

Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.

Select **Dot Clock** item by using "▼" or "▲" buttons. Use "◄" or "►" button to adjust the value.

PC Picture Menu

For adjusting PC picture items, do the following: Press "◄" or "►" button to select the second icon. PC Picture menu appears on the screen.

Contrast, Brightness, Colour and Colour Temperature settings in this menu are identical to settings defined in TV picture menu under "Analogue TV Menu System".

Note: If you set Colour Temp as User, you can define R, G, B settings manually.

Sound,Feature and Source settings are identical to thesettings explained in Analog Tv menu system.

Displaying TV Information

Programme Number, **Programme Name**, **Sound Indicator** and **Zoom Mode** information is displayed on the screen when a new programme is entered or **INFO** button is pressed.

When you are in DTV Mode and press "▼" or "▲" button, the Information of the previous or next programme is displayed. To switch to the displayed, programme just press **OK** button.

Mute Function

Press "🔇" button to disable sound. Mute indicator will be displayed in the upper side of the screen.

To cancel mute, there are two alternatives; the first one is pressing the "🔇" button and the second one is increasing the volume level.

Picture Mode Selection

By pressing **PRESETS** button, you can change **Picture Mode** settings in accordance with your viewing requirements. Available options are Dynamic, Natural and Cinema.

Note : This function will not be available while in PC mode.

Freezing Picture

You can freeze the picture on the screen by pressing the "**OK**" button on the remote control in TV mode. Press the "**OK**" button to freeze picture. Press again to quit freeze mode (available only in analogue TV mode).

Zoom Modes

You can change the aspect ratio (image size) of the TV for viewing the picture in different zoom modes.

Press "**SCREEN**" button to directly change the zoom mode.

Available zoom modes are listed below.

Note:

In YPbPr and HDMI modes, while in 720p-1080i resolutions, only 16:9 mode is available.

In PC mode, only 16:9 mode is available.

Auto

When a **WSS (Wide Screen Signalling)** signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the **ZOOM** mode according to the **WSS** signal.

• When the **AUTO** mode does not function correctly due to poor **WSS** signal quality or when you want to change the **ZOOM** mode, change to another **ZOOM** mode manually.

16:9

This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.

• For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the **16:9** mode to restore the picture to its original shape.

4:3

Use to view a normal picture (4:3 aspect ratio) as this is its original size.

Panoramic

This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the screen.

The top and bottom of the picture are slightly cut off.

14:9

This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.

Cinema

This zooms up the wide picture (16:9 aspect ratio) to the full screen.

Subtitle

This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.

Zoom

This option zooms to the picture.

Note: *You can shift to screen up or down by pressing "▼" / "▲" buttons while picture zoom is selected as panaromic, 14:9, Cinema or Subtitle.*

Teletext

Teletext system transmits information such as news, sports and weather on your TV. Note that is the signal degrades, for example in poor/adverse weather conditions, some text errors may occur or the teletext mode may be aborted.

Teletext function buttons are listed below:

"▤" Teletext On-Off / Mix / PAT Mode

Activates teletext mode when pressed once. Press again to place the teletext screen over the programme (mix). Pressing this button again will split the screen into two windows, one displaying the teletext and the other displaying the current channel. Pressing again will quit the teletext mode.

"RETURN" Index

Selects the teletext index page.

"SCREEN" Expand

Press once to enlarge top half of the page, press again to enlarge the bottom half of the page. Press again to revert back to normal size.

"▤?" Reveal

Shows hidden information (e.g. solutions of games).

"OK" Hold

Holds a text page when convenient. Press again to resume.

"▶" Subcode Pages

Selects subcode pages if available when the teletext is activated. Press again to place the teletext screen over the programme (mix).

P+ / P- and numbers (0-9)

Press to select a page.

Note: *Most TV stations use code 100 for their index pages.*

Coloured Buttons

(RED/GREEN/YELLOW/BLUE)

Your TV supports both **FASTEXT** and **TOP text** systems. When these systems are available, the pages are divided into groups or topics.

When **FASTEXT** system is available, sections in a teletext page will become colour-coded and can be selected by pressing the coloured buttons. Press a coloured button that corresponds to with your needs.

The coloured writings will appear, showing you which coloured buttons to use when **TOP text** transmission is present. Pressing **P -** or **P +** commands will request the next or previous page respectively.

Teletext Subtitle (in analogue TV mode only)

If you press **SUBTITLE** button, teletext subtitle information will be displayed on the bottom right part of the screen (if available). You can set the desired option by highlighting it using "▼" or "▲" button and then by pressing OK button.

Tips

Screen Care

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the coating layer of the TV screen.

For your safety, unplug the mains plug when cleaning the set. When moving the TV, hold it properly from the bottom part.

Image Persistence

Please note that ghosting may occur while displaying a persistent image. LCD TVs' image persistence may disappear after a short time. Try turning off the TV for a while.

To avoid this, do not leave the screen in still picture for extended periods.

No Power

If your TV system has no power, please check the main power cable and connection to the mains socket outlet.

Poor Picture

Have you selected the correct TV system? Is your TV set or house aerial located too close to a non-earthed audio equipment or neon lights, etc.?

Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

Is the picture or teletext unrecognisable? Check if you have entered the correct frequency. Please retune the channels.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

No Picture

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

No Picture means that your TV is not receiving a transmission. Have you selected the correct button on the remote control? Try once more.

Also make sure the correct input source has been selected.

Sound

You can not hear any sound. Did you perhaps interrupt the sound, pressing the ⌀ button?

Sound is coming from only one of the speakers. Is the balance set to one extreme? See **Sound Menu**.

Remote Control

Your TV no longer responds to the remote control. Perhaps the batteries are exhausted. If so you can still use the local buttons of the TV.

Input Sources

If you cannot select an input source, it is possible that no device is connected.

Check the AV cables and connections if you have tried to connect a device.

Appendix A: PC Input Typical Display Modes

The display has a maximum resolution of 1920 x 1200. The following table is an illustration of some of the typical video display modes.

Your TV may not support different resolutions. Supported resolution modes are listed below.

If you switch your PC to an unsupported mode, a warning OSD will appear on the screen.

Index	Resolution		Frequency		Standard	Supported Zoom Modes
	Hor	Ver	Ver (Hz)	Hor (KHz)		
1	640	350	85	37.9	VESA	16:9, 4:3
2	640	400	85	37.9	VESA	16:9, 4:3
3	640	400	70	31.5	IBM VGA	16:9, 4:3
4	640	480	60	31.5	VESA	16:9, 4:3
5	640	480	66	35.0	MAC	16:9, 4:3
6	640	480	72	37.9	VESA	16:9, 4:3
7	640	480	75	37.5	VESA	16:9, 4:3
8	640	480	85	43.3	VESA	16:9, 4:3
9	800	600	56	35.2	VESA	16:9, 4:3
10	800	600	60	37.9	VESA	16:9, 4:3
11	800	600	70	43.8		16:9, 4:3
12	800	600	72	48.1	VESA	16:9, 4:3
13	800	600	75	46.9	VESA	16:9, 4:3
14	800	600	85	53.7	VESA	16:9, 4:3
15	832	624	75	49.7	MAC	16:9, 4:3
16	1024	768	43	35.5	VESA (interlace)	16:9, 4:3
17	1024	768	60	48.4	VESA	16:9, 4:3
18	1024	768	70	56.5	VESA	16:9, 4:3
19	1024	768	72	57.7		16:9, 4:3
20	1024	768	75	60.0		16:9, 4:3
21	1024	768	85	68.3		16:9, 4:3
22	1152	864	60	53.8		16:9, 4:3
23	1152	864	70	64.2	VESA	16:9, 4:3
24	1152	864	75	67.5	VESA	16:9, 4:3
25	1152	864	85	77.1	VESA	16:9, 4:3
26	1152	870	75	68.9	MAC	16:9, 4:3
27	1280	768	60	47.7	VESA	16:9, 4:3
28	1360	768	60	47.7		16:9, 4:3
29	1280	768	75	60.2	VESA	16:9, 4:3
30	1280	960	60	60.0	VESA	16:9, 4:3
31	1280	960	75	75.0	VESA	16:9, 4:3
32	1280	960	85	85.9	VESA	16:9, 4:3
33	1280	1024	60	64.0	VESA	16:9
34	1280	1024	75	80.0	VESA	16:9
35	1280	1024	85	91.1	VESA	16:9
36	1400	1050	60	65.3		16:9
37	1400	1050	75	82.3		16:9
38	1440	900	60	55.9		16:9
39	1440	900	75	70.6		16:9
40	1600	1200	60	75.0	VESA	16:9
41	1680	1050	60	65.3		16:9
42	1920	1200	60	74.5		16:9

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Appendix B: AV and HDMI Signal Compatibility (Input Signal Types)

Source	Supported Signals		Available
EXT 1	PAL 50/60		O
	NTSC 60		O
	RGB 50		O
	RGB 60		O
EXT 2	PAL 50/60		O
	NTSC 60		O
	RGB 50		X
	RGB 60		X
SIDE AV	PAL 50/60		O
	NTSC 60		O
S-VIDEO	PAL 50/60		O
	NTSC 60		O
YPbPr	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
HDMI1 HDMI2 HDMI3	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
	1080P	24 HZ	O

(X: Not Available, O: Available)

Note: In some cases a signal on the LCD TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

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Appendix C: Supported File Formats for USB Mode

Media	File Extension	Format		Remarks
		Video	Audio	(Maximum resolution/Bit rate etc.)
Music	.mp3	--	MPEG 1/2 Layer 1/ 2/ 3 (MP3)	Sample Rate: 8K ~ 48KHz, Bit Rate: 32K~320Kbps
Photo	.jpg	Baseline JPEG		MAX. Width 7680 Height 4320, 16 Mega-pixel Support format: 444/ 422/ 420

Appendix D: Supported DVI Resolutions

When connecting devices to your TV's connectors by using DVI converter cables (not supplied), you can refer to the following resolution information.

	24Hz	25Hz	30Hz	50Hz	60Hz
480i					☑
480p					☑
576i				☑	
576p				☑	
720p				☑	☑
1080i				☑	☑
1080p	☑	☑	☑	☑	☑

Specifications

TV BROADCASTING

PAL/SECAM B/G D/K K' I/I' L/L'

RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

NUMBER OF PRESET CHANNELS (analogue)

200

NUMBER OF PRESET CHANNELS (digital)

1000

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm (unbalanced)

OPERATING VOLTAGE

220-240V AC, 50 Hz.

AUDIO

German + Nicam Stereo

AUDIO OUTPUT POWER

($W_{RMS.}$) (10% THD)

2 x 8

POWER CONSUMPTION (W)

210 W (max)

< 1 W (Standby)

PANEL

42" Wide Screen

DIMENSIONS (mm)

DxLxH (With foot): 246 x 1011 x 690

Weight (Kg): 18.80

DxLxH (Without foot): 68 x 1011 x 650

Weight (Kg): 18.00

Digital Reception (DVB-T)

Transmission Standards:

MPEG2, MPEG4 HD DVB-T

i. DEMODULATION

-Symbol rate: COFDM with 2K/8K FFT mode.

-Modulation: 16-QAM - 64-QAM FEC for all DVB modes (automatically found)

ii. VIDEO

-H.264 (MPEG-4 part 10) main and high profile level 4.1/MPEG-2 MP@HL video decoder.

-HD display multi format capable (1080i)

-CVBS analogue output.

iii. AUDIO

-MPEG-1 layer I/II, MPEG-2 layer II, AAC, HEAAC, AC3

-Sampling frequencies supported are 32, 44.1 & 48 kHz

Digital Reception (DVB-T2)

Demodulation

- QPSK, 16QAM, 64QAM, 256QAM with 1k, 2k, 4k, 8k, 16k, 32k FFT mode

Frequency Band

- UHF/ VHF

Channel BW

- 8 MHz /7MHz

Profiles

- MPEG-4 H.264/AVC HP@L 4.0, MP@L 4.0 (HD)

- H.264/AVC MP@L 3 .2, HP@L 3 .2 (SD)

- MPEG-2 MP@HL, MP@ML (SD)

Important Instruction

For your own safety read following instruction carefully before attempting to connect this unit to the mains supply.
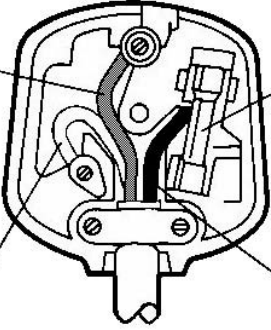
MAINS (AC) OPERATION

The wires in the mains lead are coloured in accordance with the following code :

GREEN
&
YELLOW
(Earth)
(if there is earth cable)

FUSE

BROWN
(Live)

BLUE
(Neutral)

IMPORTANT

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal which is marked with the letter E, or by the earth symbol, or coloured green or green and yellow.

The wire which is coloured blue or black must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured brown or red must be connected to the terminal which is marked with the letter L or coloured Red.

For continued protection against risk of fire, replace only with same type and rating of fuse (ASTA approved 5A 250VAC fuse).

CAUTION

TO PREVENT ELECTRIC SHOCK DISCONNECT FROM THE MAINS BEFORE REMOVING COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

SAFETY PRECAUTION

THIS EQUIPMENT MUST BE DISCONNECTED FROM THE MAINS WHEN NOT IN USE. DO NOT ALLOW THIS UNIT TO BE EXPOSED TO RAIN OR MOISTURE.